

Name: \_\_\_\_\_

# Content Check

**Read and answer the questions below.**

1. Sound waves transfer \_\_\_\_\_ from one place to another by making a material vibrate.

2. Use the following words to complete each sentence:    absorbed    transmitted    reflected

a) Sound waves are \_\_\_\_\_ when they can travel through a material.

b) Sound waves are \_\_\_\_\_ when they bounce off of a material.

c) Sound waves are \_\_\_\_\_ when they become a different type of energy, such as heat.

3. You notice when you are in science class that the room always seems very loud compared to your math class during group work when the students are talking. The science classroom floor is covered in tile. The math classroom floor is carpeted. Give an explanation for why it is louder in your science classroom compared to your math classroom.

# Content Check

## Teacher Key

1. Sound waves transfer energy from one place to another by making a material vibrate.

2. Use the following words to complete each sentence:    absorbed    transmitted    reflected

a) Sound waves are transmitted when they can travel through a material.

b) Sound waves are reflected when they bounce off of a material.

c) Sound waves are absorbed when they become a different type of energy, such as heat.

3. You notice when you are in science class that the room always seems very loud compared to your math class during group work when the students are talking. The science classroom floor is covered in tile. The math classroom floor is carpeted. Give an explanation for why it is louder in your science classroom compared to your math classroom.

The tile floor reflects sound waves from voices and bounces them all over the room, while the carpet absorbs the sound waves.